

EPA Potential Hazardous Waste Site Preliminary Assessment Form		Identification 1765299 - R8 SDMS	
		State CO	Site Number (EPA ID) CON000803078
CERCLIS Discovery Date: 6/1/2013			
1. General Site Information			
Name: Illinois Gulch		Street Address: Area near intersection of Bright Hope Circle and Boreas Pass Road	
City: Breckenridge	State: CO	Zip Code: 80424	County: Summit Co. Code 117 Cong. Dist: 2
Latitude: 39.4715410	Longitude: -106.0346070	Approximate Area of Site: <i>Note: approx. 1,000-ft radius from center of Willard Pile</i> 60 Acres Square Feet	Status of Site: <input type="checkbox"/> Active <input type="checkbox"/> Not Specified <input checked="" type="checkbox"/> Inactive <input type="checkbox"/> NA (GW, plume, etc.)
2. Owner/Operator Information			
Owner: Mixed ownership		Operator: Abandoned Mine Site – no longer operating	
Street Address: NA		Street Address: NA	
City: NA		City: NA	
State: NA	Zip Code: NA	Telephone: NA	State: NA Zip Code: NA Telephone: NA
Type of Ownership: <input checked="" type="checkbox"/> Private <input type="checkbox"/> County <input checked="" type="checkbox"/> Federal Agency <input type="checkbox"/> Municipal Name _____ <input type="checkbox"/> Not Specified <input type="checkbox"/> State <input checked="" type="checkbox"/> Other Mixed ownership <input type="checkbox"/> Indian		How Initially Identified: <input type="checkbox"/> Citizen Complaint <input type="checkbox"/> Federal Program <input type="checkbox"/> PA Petition <input type="checkbox"/> Incidental <input checked="" type="checkbox"/> State/Local Program <input type="checkbox"/> Not Specified <input type="checkbox"/> RCRA, CERCLA Notification <input type="checkbox"/> Other _____	
3. Site Evaluator Information			
Name of Evaluator: Mark Levorsen		Agency/Organization: Consultant, AECOM	Date Prepared: April 15, 2015
Street Address: 8181 E. Tufts Avenue		City: Denver	State: Colorado
Name of EPA or State Agency Contact: Jean Wyatt		Street Address: 1595 Wynkoop St. 8EPR-AR	
City: Denver		State: Colorado	Telephone: 303-312-6258
4. Site Disposition (for EPA use only)			
Emergency Response/Removal Assessment Recommendation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Date 03/10/2014		CERCLIS Recommendation: <input checked="" type="checkbox"/> Higher Priority SI <input type="checkbox"/> Lower Priority SI <input type="checkbox"/> NFRAP <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Date 05/01/2015	
		Signature: Name (typed): Jean Wyatt Position: SAM	



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5. General Site Characteristics

Predominant Land Uses Within One Mile of Site (Check all that apply): <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural <input type="checkbox"/> DOI <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Mining <input type="checkbox"/> Other Federal Facility <input checked="" type="checkbox"/> Residential <input type="checkbox"/> DOD <input checked="" type="checkbox"/> Forest/Fields <input type="checkbox"/> DOE <input type="checkbox"/> Other _____		Site Setting: <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban <input checked="" type="checkbox"/> Rural	Years of Operation: Beginning Year <u>1885</u> Ending Year <u>1929 or later</u> <input type="checkbox"/> Unknown
Type of Site Operations (Check all that apply): <input type="checkbox"/> Manufacturing (must check subcategory) <input type="checkbox"/> Lumber and Wood Products <input type="checkbox"/> Recycling <input type="checkbox"/> Inorganic Chemicals <input type="checkbox"/> Junk/Salvage Yard <input type="checkbox"/> Plastic and/or Rubber Products <input type="checkbox"/> Municipal Landfill <input type="checkbox"/> Paints, Varnishes <input type="checkbox"/> Other Landfill <input type="checkbox"/> Industrial Organic Chemicals <input type="checkbox"/> DOD <input type="checkbox"/> Agricultural Chemicals <input type="checkbox"/> DOE (e.g., pesticides, fertilizers) <input type="checkbox"/> DOI <input type="checkbox"/> Miscellaneous Chemical Products <input type="checkbox"/> Other Federal Facility _____ (e.g., adhesives, explosives, ink) <input type="checkbox"/> RCRA <input type="checkbox"/> Primary Metals <input type="checkbox"/> Treatment, Storage, or Disposal <input type="checkbox"/> Metal Coating, Plating, Engraving <input type="checkbox"/> Large Quantity Generator <input type="checkbox"/> Metal Forging, Stamping <input type="checkbox"/> Small Quantity Generator <input type="checkbox"/> Fabricated Structural Metal Products <input type="checkbox"/> Subtitle D <input type="checkbox"/> Electronic Equipment <input type="checkbox"/> Municipal <input type="checkbox"/> Other Manufacturing <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Mining <input type="checkbox"/> Converter <input checked="" type="checkbox"/> Metals <input type="checkbox"/> Protective Filer <input type="checkbox"/> Coal <input type="checkbox"/> Non- or Late Filer <input type="checkbox"/> Oil and Gas <input type="checkbox"/> Not Specified <input type="checkbox"/> Non-metallic Minerals <input checked="" type="checkbox"/> Other Abandoned mine sites		Waste Generated: <input checked="" type="checkbox"/> On site <input type="checkbox"/> Off-site <input type="checkbox"/> On site and off-site Waste Deposition Authorized By: <input type="checkbox"/> Present Owner <input checked="" type="checkbox"/> Former Owner <input type="checkbox"/> Present & Former Owner <input type="checkbox"/> Unauthorized <input type="checkbox"/> Custer County Roads & Bridges Waste Accessible to the Public: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (on site) Unknown if off-site disposal is accessible to public. Distance to Nearest <u>Dwelling</u>, School, or Workplace: <u>30</u> Feet	

6. Waste Characteristics Information

Source Type: (Check all that apply)	Source Waste Quantity: (Include units)	Tier*:	General Types of Waste (Check all that apply)
<input type="checkbox"/> Landfill <input type="checkbox"/> Surface Impoundment <input type="checkbox"/> Drums <input type="checkbox"/> Tanks and Non-Drum Containers <input type="checkbox"/> Chemical Waste Pile <input type="checkbox"/> Scrap Metal or Junk Pile <input checked="" type="checkbox"/> Tailings Pile <input type="checkbox"/> Trash Pile (open dump) <input type="checkbox"/> Land Treatment <input type="checkbox"/> Contaminated Groundwater Plume (unidentified source) <input checked="" type="checkbox"/> Contaminated Surface Water/Sediment (unidentified source) <input type="checkbox"/> Contaminated Soil <input type="checkbox"/> Other _____ <input type="checkbox"/> No Sources	_____ _____ _____ _____ _____ <u>61,000ft² and 5-20 ft thick (Google Earth)</u> _____ _____ _____ <u>Two adit drainages, total 900 ft long</u> _____ _____	_____ _____ _____ _____ _____ <u>A</u> _____ _____ _____ <u>L</u> _____ _____	<input checked="" type="checkbox"/> Metals <input type="checkbox"/> Pesticides/Herbicides <input type="checkbox"/> Organics <input type="checkbox"/> Acids/Bases <input type="checkbox"/> Inorganics <input type="checkbox"/> Oily Waste <input type="checkbox"/> Solvents <input type="checkbox"/> Municipal Waste <input type="checkbox"/> Paints/Pigments <input checked="" type="checkbox"/> Mining Waste <input type="checkbox"/> Laboratory/Hospital Waste <input type="checkbox"/> Explosives <input type="checkbox"/> Radioactive Waste <input type="checkbox"/> Other _____ <input type="checkbox"/> Construction/Demolition Waste
* C = Constituent W = Waste stream V = Volume A = Area			Physical State of Waste as Deposited (Check all that apply): <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Powder <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas

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Is Groundwater Used for Drinking Water Within 4 Miles? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Type of Drinking Water Wells Within 4 Miles (Check all that apply): <input checked="" type="checkbox"/> Municipal <input checked="" type="checkbox"/> Private (DWR's CDSS) <input type="checkbox"/> None <i>Note: private wells that serve public businesses are present in Breckenridge (contact CDPHE)</i>	Is There a Suspected Release to Groundwater? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Have Primary Target Drinking Water Wells Been Identified? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, Enter Primary Target Population:	List Secondary Target Population Served by Groundwater Withdrawn From: 0 - 1/4 Mile <u>7 (3 wells)</u> 1/4 - 1/2 Mile <u>67 (29 wells)</u> 1/2 - 1 Mile <u>338 (146 wells)</u> > 1 - 2 Miles <u>416 (180 wells)</u> > 2 - 3 Miles <u>229 (99 wells)</u> > 3 - 4 Miles <u>258 (111 well)</u> Total Within 4 Miles <u>1315 (568 wells)</u> <i>Note: All GW wells were evaluated for scoring purposes. Population was estimated assuming 2.36 people per household per Summit County Census.</i>
Depth to Shallowest Aquifer: <u>0 ft - seeps and alluvium</u> Karst Terrain/Aquifer Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Nearest Designated Wellhead Protection Area: <input type="checkbox"/> Underlies Site <input type="checkbox"/> > 0 - 4 Miles <input checked="" type="checkbox"/> None Within 4 Miles <i>Note: groundwater sensitive zones are present in and around Breckenridge</i>	

8. Surface Water Pathway

Type of Surface Water Draining Site and 15 Miles Downstream (Check all that apply): <input checked="" type="checkbox"/> Stream <input checked="" type="checkbox"/> River <input checked="" type="checkbox"/> Pond <input checked="" type="checkbox"/> Lake <input type="checkbox"/> Bay <input type="checkbox"/> Ocean <input type="checkbox"/> Other _____	Shortest Overland Distance From Any Source To Surface Water: <u>0 (in contact with)</u> Feet Miles																
Is There a Suspected Release to Surface Water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Site is Located in: <input checked="" type="checkbox"/> Annual - 10-year Floodplain <input type="checkbox"/> > 10-year - 100-year Floodplain <input type="checkbox"/> > 100-year - 500-year Floodplain <input type="checkbox"/> > 500-year Floodplain																
Drinking Water Intakes Located Along the Surface Water Migration Path: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (located upstream/up-drainage of migration path) Have Primary Target Drinking Water Intakes Been Identified: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Enter Population Served by Primary Target Intakes: _____ People	List All Secondary Target Drinking Water Intakes: <table border="1"><thead><tr><th>Name</th><th>Water Body</th><th>Flow (cfs)</th><th>Population Served</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>	Name	Water Body	Flow (cfs)	Population Served	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
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_____	_____	_____	_____														
_____	_____	_____	_____														
_____	_____	_____	_____														
Fisheries Located Along the Surface Water Migration Path: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Have Primary Target Fisheries Been Identified: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	List All Secondary Target Fisheries: (gave annual average flow) <table border="1"><thead><tr><th>Water Body/Fishery Name</th><th>Flow (cfs)</th></tr></thead><tbody><tr><td>Illinois Gulch</td><td>2.2</td></tr><tr><td>Blue River before Dillon Reservoir</td><td>36 at confluence with Ill Gulch to 94 before Reservoir</td></tr><tr><td>Dillon Reservoir</td><td>209</td></tr></tbody></table>	Water Body/Fishery Name	Flow (cfs)	Illinois Gulch	2.2	Blue River before Dillon Reservoir	36 at confluence with Ill Gulch to 94 before Reservoir	Dillon Reservoir	209								
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Wetlands Located Along the Surface Water Migration Path:

- ☒ Yes
☐ No
☐ Unknown

Have Primary Target Wetlands Been Identified:

- ☒ Yes
☐ No

List Secondary Target Wetlands:

Water Body	Flow (cfs)	Frontage Miles
Illinois Gulch	2.2	0.57 per NWI
Blue River	36-94	6.25 per NWI

Other Sensitive Environments Located Along the Surface Water Migration Path:

- ☒ Yes
☐ No

Have Primary Target Sensitive Environments Been Identified:

- ☐ Yes
☒ No

List Secondary Target Sensitive Environments:

Water Body	Flow (cfs)	Sensitive Environment Type
Blue River	36-94	Brown trout spawning area

9. Soil Exposure Pathway

Are People Occupying Residences or Attending School or Daycare On and Within 200 Feet of Areas of Known or Suspected Contamination:

- ☐ Yes
☒ No

If Yes, Enter Total Resident Population:

_____ People

Number of Workers On Site:

- ☒ None
☐ 1 - 100
☐ 101 - 1,000
☐ >1,000

Have Terrestrial Sensitive Environments Been Identified On or Within 200 Feet of Areas of Known or Suspected Contamination?

- ☒ Yes
☐ No

If Yes, List Each Terrestrial Sensitive Environment:

Boreal Toad habitat used by State endangered species to include: Vicinity of mountain lakes, ponds, meadows, and wetlands in subalpine forest (for example, spruce, fir, Lodgepole pine, aspen) between 8,500 ft amsl and 11,500 ft amsl.

10. Air Pathway

Is There a Suspected Release to Air:

- ☒ Yes
☐ No

Enter Total Population On or Within:

On Site	0
0 - 1/4 Mile	394
>1/4 - 1/2 Mile	1015
>1/2 Mile - 1 Mile	2690
>1 - 2 Miles	4632
>2 - 3 Miles	2807
>3 - 4 Miles	2659
Total Within 4 Miles	14,197

Populations within distances of WillardPile source

Wetlands Located Within 4 Miles of the Site:

- ☒ Yes
☐ No
☐ Unknown

Other Sensitive Environments Located Within 4 Miles of the Site:

- ☒ Yes
☐ No
☐ Unknown

List All Sensitive Environments Within 1/2 Mile of the Site:

Distance	Sensitive Environment Type/Wetlands Area (acres)
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On Site	2.55
0 - 1/4 Mile	5.63
> 1/4 - 1/2 Mile	12.79